

A34759 (Sheet 1 of 10)

A34759 (Sheet 2 of 10)

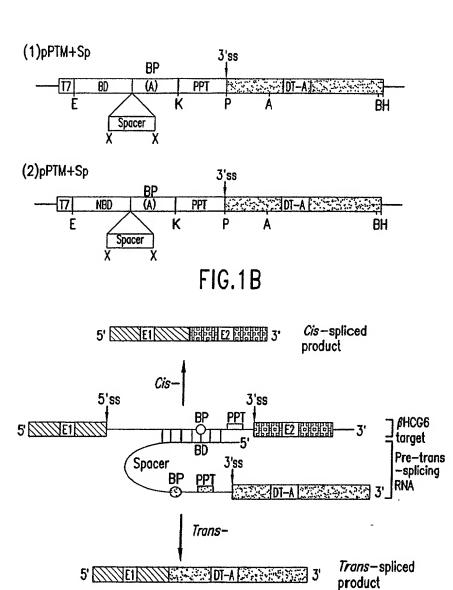
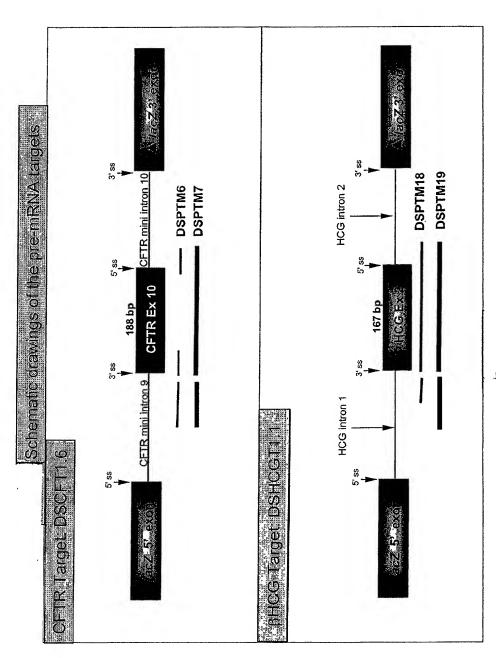


FIG.1C



A34759 (Sheet 3 of 10)

4

Figure 2

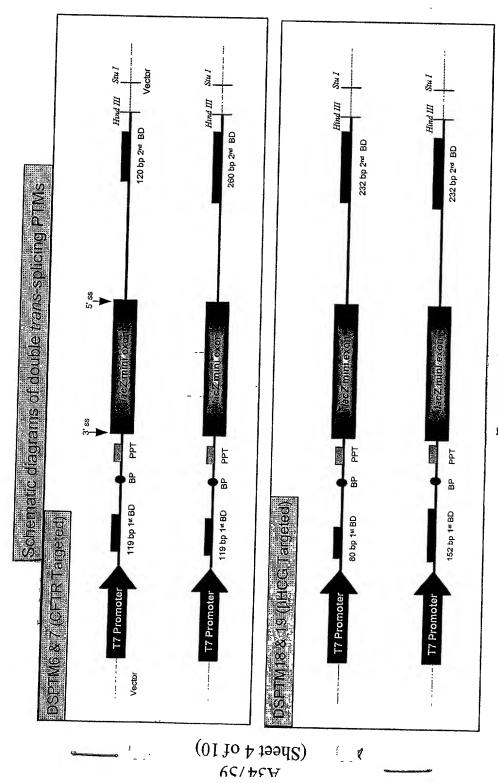


Figure 3

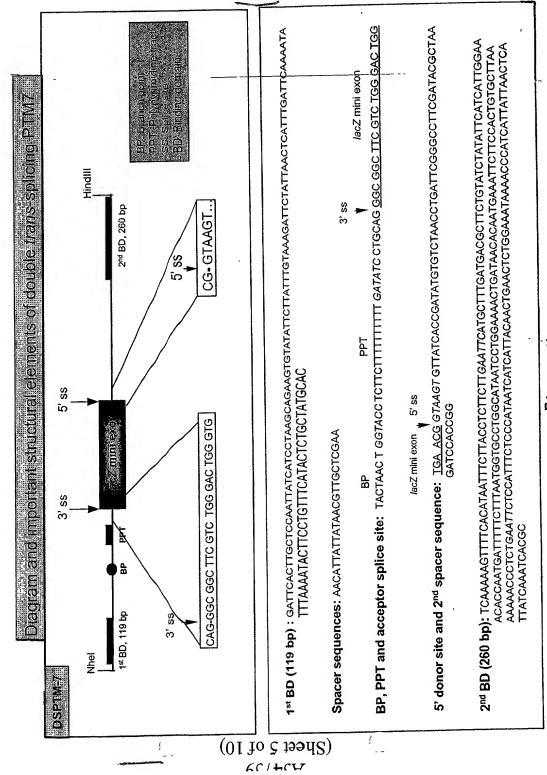
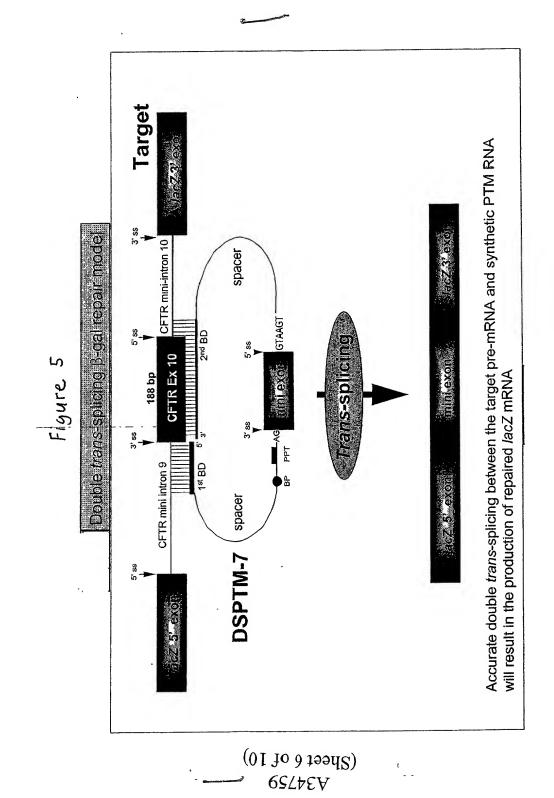
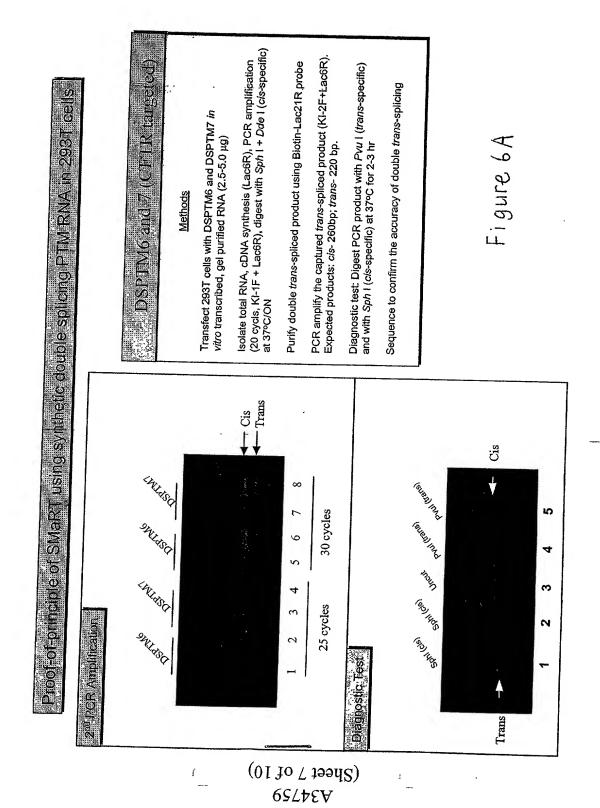


Figure 4





for principle of SMaRT using synthetic double splicing PTM RNA in stable cells

Cis + Trans at 12 3 4 Exon Skipping Ex

A34759 (Sheet 8 of 10)

DSPTM18 and 19 (HCG targeted)

Methods

Transfect DSHCGT1.1 stable cells with DSPTM7, DSPTM18 and DSPTM19 in vitro transcribed, gel purified RNA (2.5-5.0 µg)

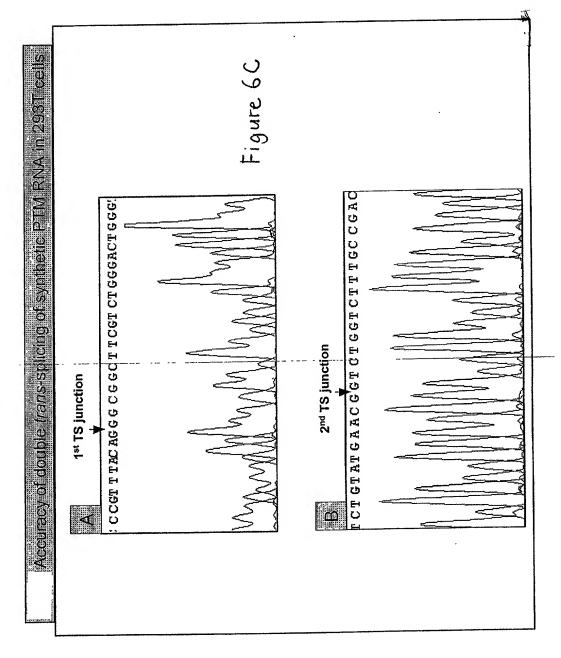
Isolate total RNA, cDNA synthesis (Lac6R), PCR amplification (20 cycls, KI-1F + Lac6R), digest with Sph I + Dde I (cis-specific) at 37°C/ON

Purify double trans-spliced product using Biotin-Lac21R probe

PCR amplify the captured *trans-*spliced product (KI-2F + Lac6R). Expected products: *cis-* 260bp; *trans-* 220 bp

Sequence to confirm the accuracy of double trans-splicing

Figure 6B

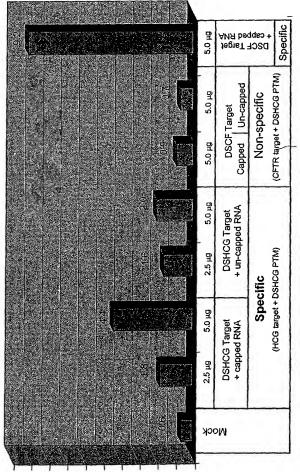


A34759 (01 to 9 test 9 of 10)

estoration of β-gal function through RNA transfection i Synthetic RNA, Double trans-splicing Methods

Transfert 2001 gells

Hanest cells after 48 hr



β-gal Activity (Units/mg of protein)

(Sheet 10 of 10)

Figure 7